

SOC IMS: SOC-20110808-224190 Last Updated: 6/13/2012 3:05 AM

SOC Incident Management System

IMS User Contact:

(b) (6), (b) (7)(C)

Restrict Access

All IMS

Record

Permissions Group:

All IMS Users

Record Source:

Contact Details

Enter the NASA AUID or email address of the Contact, and click "Lookup Contact Details" to automatically retrieve the information.

AUID:

Email:

Enter Contact information below if the primary contact is not an IMS user

Contact Last Name:

Contact First Name:

Contact Role:

Contact Office

Phone:

Contact E-mail:

Contact AUID:

Contact Cell Phone:

FIIOI

Contact NASA

Center:

Contact

Contact Room

Building:

Number:

Contact Type:

General Details

SOC Tracking Number:

Created (UTC):

SOC-20110808-224190

Categorization:

Incident

Date Record

8/8/2011 6:06 PM

Incident Time Zone:

UTC - Coordinated Universal Time Zone (GMT)

Title: ARC - Unauthorized Access

Brief

Compromised ARC system (b) (7)(E), . Possible SQL injection attack again (b) (7)(E)

Description:

Current Status: Resolved

Assigned To: A

ARC IRM

ARC ITSM

Current Priority: Low

Also Notify:



CUI: Maybe SBU Only Notify on Save: No **CUI Categories:**

Ok To Close: No

US CERT Reporting

Actor

Recover:

Characterization

Risk Rating: Information **Functional** Impact: Impact: Recoverability: **Attack Vectors: Critical Service** Classified Incident: or System: **High Value Major Incident:** Assets (HVA): Reportable to **Congress:** Observed Number of Records Activity: Impacted: Location of Number of Observed Systems Activity: Impacted:

Action Taken to Number of Files

The fields below hold the US-CERT Reporting fields that were in force from October 1, 2015 through March

31, 2017. The are included here for reporting purposes only. **Functional** Informational

Impact old: Recoverability

Impact old:

Impacts old:

Number of

Impacted:

Users Impacted:

Sensitive But Unclassified

How SBU was Reason SBU is suspected to be disclosed: involved: **SBU Media SBU Media** Format: Format Medium: Date & Time Date & Time of Incident Discovery of **SBU Loss:** Occurred:



SENSITIVE BU	II UNCLA	SSIFIED					
Scope of SBU Exposure:					SBU Data Elements Exposed:		
Original Information Owner:					Number of Individuals without the appropriate "Need to Know" for Information Associated with this Exposure:		
Protection of SBU Data Elements:					SBU Trade Secrets:		
Law Enforcement or IG Notified about SBU:					Time to Report:		
Related Tasks							
Task ID Ass	signed To	Due Date (UTC)	Priority	Status	Description		Resolution
No Records Found	d						
Related Incide	Related Incidents Select Relationship						
Relationship:					Description:		
Parent Incident	t						
SOC Tracking Numb	er		Current Status			Title	
No Records Found	No Records Found						
Child Incidents							
SOC Tracking Numb	er		Current Status			Title	
No Records Found	d						
Sibling Incident	ts						
SOC Tracking Number Current Status			Title				
No Records Found	d						
Incident Detai	Incident Details						
Time Incident Started:	8/8/2011 1	1:00 AM			Time Incident Started (UTC):	8/8/2011 11:00 AM	
Time Incident Detected:	8/8/2011 1	1:00 AM			Time Incident Detected (UTC):	8/8/2011 11:00 AM	

Center Affected ARC

by Incident:

(reference):

Overall Impact Moderate



US-CERT CAT 5 - Scans/Probes/Attempted Access Incident Category: Subcategory: INC000000166870 ESD Ticket #: **US-CERT Tracking** Number: Resolution Concluded Malware Status: Family: Highest level of access gained: **Primary Method** System Administrator

used to Identify Incident:

Primary Attack Category:

Primary Vulnerability Type:

Lost or Stolen NASA **Equipment:**

Lost or Stolen NASA Equipment Application

Tracking ID **Cause of Loss** Type of System Lost **Description of Circumstances**

No Records Found

Host Information

NASA Hosts

IP Address **IPv6 Address** Center/Facility **Host Name**

(b) (7)(E) ARC

External Hosts

IP Address External IPv6 Address Host Name Position in this attack

No Records Found

Campaigns

Reviewed By Campaign Name: TVA: **Confirmed By** Campaign Comment: TVA:

Is APT:

Indicators of Compromise

IOC Domain

FQDN Do Sinkhole Comment



No Records Found	JT UNCLASSII d	TIED					
IOC IP							
IP Address		IP Block		Comment			
No Records Found	d						
IOC File							
Filename		MD5 Hash		Comment			
No Records Found	d						
IOC Registry Ke	еу						
Key Name		Key Value		Comment			
No Records Found	d						
IOC Email							
Sender Email		Subject		Comment			
No Records Found	d						
IOC Detection							
Name		Туре		Comment			
No Records Foun	d						
The Root Cause St b) (7)(E), (b) (2)		onstructed from th	ne following fields I	ike so:			
Root Cause				Root Cause			
Sources:				Categories:			
Root Cause Methods:				Root Cause Causes:			
Root Cause Factors:				Root Cause Objectives:			
Reporting Org	anizations						
Reporting Date (UTC)	Reporting Local Date	Reporting Local Time Zone	Reporting Notes		Reporting Number	Reporting Organization	Reporting Organization Contact
No Records Found	d						
Impact of Incident							
NASA Programs, Projects, and/or Operations:				People:	Moderate		



Data (at Rest or Transmission):	Low	System:	Low
Cost:	Low	Sophistication / Nature of Attack:	Low
Number of systems affected by this incident:	1	Number of NASA Centers/ Facilities affected by this incident:	
Number of accounts affected by this incident:	2-5	Critical Infrastructure Impacted:	No
Other Impacts:	Moderate		
Overall Impact:	Moderate Incident Considered Moderate if any of th	e Categories are ra	ited Moderate but not High
Containment /	Actions		
Incident Containment System Action:			
Incident Containment Network Action:			
Recovery Action	ons		
Incident Recovery System Action:			
Incident Recovery User Action:			
Recommenda	tions		
Root Cause:	(b) (7)(E)		
Lessons Learned:	(~) (.)(=)		
Costs			
Center (Hours):	8.00	Center (Dollars):	800.00
NASA SOC (Hours):		NASA SOC (Dollars):	
NASA NOC (Hours):		NASA NOC (Dollars):	



Other Costs

(Dollars): (Hours): Total Costs in Hours and Dollars are automatically calculated as the sum of the individual costs above. Center IR teams or managers should enter the Center costs, the NASA SOC Manager should enter the SOC Costs and the NOC Manager should enter the NOC costs, if any, in order to arrive at the Total Cost. **Total Cost Total Cost** 800 (Hours): (Dollars): **Description of** Costs: **System Down System Down** Time (Days): Time (Hours): **Timeline Date Record** 8/8/2011 6:06 PM **Date Record** 6/13/2012 4:33 AM Opened (UTC): Confirmed (UTC): **Date Record Date Record** 8/17/2011 3:44 PM 8/17/2011 3:44 PM Contained Resolved (UTC): (UTC): **Date Record** Closed (UTC):

Other Costs

Time in Open: 309.42

Time in Time Confirmed: Confirmed: Time in Tim

Time to 309.00 Confirm:

Time to Contain: 8.90

Time to Resolve: 8.90

Time to Close:

Number of Days 8.901 to Resolve:

Resolved:

Time in Closed:

Journal Entries

Entry Date IMS User
US-Cert needs clarification of the following: 8/17/2011 3:06 AM (b) (6), (b)

 Credential disclosure. The SQL database associated with this bbs was dumped including password hashes. At least two of these hashes were cracked and posted online.

8/17/2011 - (b) (6), ARC - Using a publicly known vulnerability (b) (6), (b) (7)) which leveraged a flaw in the input validation of the (b) (7)(E), (b) (2) parameter on out of date vbulletin installs an attacker



was able to access the password hashes used by the vbulletin install via a SQL Injection attack. Two of the hashes obtained were posted online at (b) (7)(E), (b) (2) (also included by (b) (6), (b) in an early Journal entry).

- There is no evidence this far that suggests a system compromise. The passwords obtained were only used for the bbs instance.

8/17/2011 - (b) (6), ARC - A disk image of the VMWare instance hosting this server was taken. Review of the image found no evidence that the underlying operating system had been compromised. The hashes/passwords obtained by the SQL Injection attack were only used to authenticate with the vbulletin webapp and could not be used to leverage further access to this or other NASA systems. The disclosure of the leveraged (b) (7)(E) 'vulnerability indicates it can be used to exploit latent vulnerabilities in the underlying database, but there is no evidence found that this was attempted or achieved.

8/16/2011 7:08 PM

(b) (6),

SOC Ticket: SOC-20110808-224190

Date: 08/08/2011
IP: (b) (7)(E)
Hostname: (b) (7)(E)
User: (b) (6), (b)

Administrator: (b) (6), (b)
Sponsor: PEROT SYSTEMS

Code: PX Network: Public

Root Cause (b) (7)(E), (b) (2)

Mitigation: (b) (7)(E)

Information: Review of the system image found no signs of system level access. A interview with the maintainer confirmed site contained no PII/SBU and was in the process of development before priorities were sidetracked leaving the site below current revision level for a small amount of time. It is unclear when the SQLi/credentials were compromised, but lack of source from the available logs suggest post 3 months. The previous site will be dropped and a new VM/webapp install will be vetted from scratch. Confirmed exposed credentials were only used on the vbulletin instance, and will now be considered lost and never reused in any fashion.

. Below are some notes from the information we have gathered so far:

8/10/2011 11:10 PM

(b) (6),

- Web-app compromise (SQL injection). The vbulletin bbs system run from this site was out of date and vulnerable to publically released exploit code.
- Credential disclosure. The SQL database associated with this bbs was dumped including password hashes. At least two of these hashes were cracked and posted online.
- There is no evidence this far that suggests a system compromise. The



passwords obtained were only used for the bbs instance.

- We are tracking this incident via IMS ticket SOC-20110808-224190

Image has been taken of the suspended VM instance.

This appears to possibly be related to Ticket 224205 (opened later today) 8/8/2011 9:08 PM where this was cleaned:

(b) (6), (b)

(b) (7)(E)

Content:

Nasa Vulnerable to a public SQLi Exploit - Embarassing much?

Admin Username: (b)

Email: (b) (6), (b) (7)(C)

Hashed Password: Salt:(b) (7)(E)

Admin Username: (b) (6), Email: (b) (6), (b) (7)(C)

Hashed Password:

(b) (7)(E)

- If shit like this is vulnerable to public exploits, imagine whats vulnerable to private 0days :) -

[+] TriCk - TeaMp0isoN

[+] Shoutouts: iN^SaNe - Hex00010 - MLT

Twitter:

@TeaMp0isoN_

**NOTE: A joint #TeaMp0isoN & #Anonymous Operation is about to hit the interwebs soon **

This public URL indicates the (b) (7)(E) forum (as mentioned in the earlier journal) was compromised by "TeaMp0isoN" .. making it likely these two events are related:

http://tweetmeme.com/story/6007808536/teamp0ison-nasa-forum-is-vulnerable-sql-injection-admin-hacked-thn-the-hacker-news

TeaMp0isoN: NASA forum is Vulnerable SQL injection, Admin Hacked !TeaMp0isoN Hackers crew today Reveal on twitter that the discussion forum on NASA website

at(b) (7)(E)

is Vulnerable to SQL

injection. The discussion Forum script is Powered by Vbulletin. According to hacker, He use Vbulletin $4.0.x \Rightarrow 4.1.3$ (b) (7)(E) SQL injection



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Vulnerability Exploit

On 8/8/2011 the Admin of (b) (7)(E) contacted ARC IT Security to report the running vbulletin bbs server had been compromised. The bbs server was taken down and the admin disabled the NIC interface of the system.

8/8/2011 8:33 PM

(b) (6),

(b) (7)(E) is VM instance. Admin has been contacted to create a snapshot image of the running instance for review.

Attachment(s)



Name	Size	Туре	Upload Date	Downloads
No Records Found				
History Log				
View History Log				